

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/015313

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ B01J35/02, 29/072, C07C209/68, 211/08, C07B61/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ B01J21/00-38/74, C07C209/68, 211/08, C07B61/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1926-1996 Jitsuyo Shinan Toroku Koho 1996-2005

Kokai Jitsuyo Shinan Koho 1971-2005 Toroku Jitsuyo Shinan Koho 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

JSTplus (JOIS), CA (STN)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 3-4534 B2 (Kao Corp.), 23 January, 1991 (23.01.91), Claims; column 3, line 20 to column 10, line 2 & US 4625063 A & DE 3523074 A1	1-11
Y	JP 55-149355 A (Matsushita Electric Industrial Co., Ltd.), 20 November, 1980 (20.11.80), Claims; page 2, lower right column, line 6 to page 3, lower right column, line 9 (Family: none)	1-11

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
19 January, 2005 (19.01.05)Date of mailing of the international search report
01 February, 2005 (01.02.05)Name and mailing address of the ISA/
Japanese Patent Office

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/015313

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 61-178039 A (Oki Electric Industry Co., Ltd.), 09 August, 1986 (09.08.86), Claims; examples; Fig. 1 (Family: none)	1-11
Y	JP 7-112525 B2 (Koken Kabushiki Kaisha), 06 December, 1995 (06.12.95), Claims; examples (Family: none)	1-11
Y	JP 3-34366 B2 (Hitachi, Ltd.), 22 May, 1991 (22.05.91), Claims; column 3, line 14 to column 6, line 36; drawings & US 4631263 A & EP 85350 A1	1-11

PATENT COOPERATION TREATY

PCT

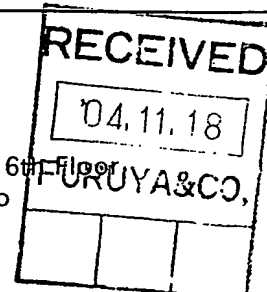
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FURUYA, Satoshi
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Date of mailing (day/month/year) 10 November 2004 (10.11.2004)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference 000004055PCT	International application No. PCT/JP2004/015313

The applicant is hereby notified that the International Bureau has received the record copy of the international application as detailed below.

Name(s) of the applicant(s) and State(s) for which they are applicants:

KAO CORPORATION (for all designated States except US)

NISHIMURA, Toru et al (for US)

International filing date : 08 October 2004 (08.10.2004)

Priority date(s) claimed : 08 October 2003 (08.10.2003)

Date of receipt of the record copy
by the International Bureau : 28 October 2004 (28.10.2004)

List of designated Offices :

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PATENT COOPERATION TREATY

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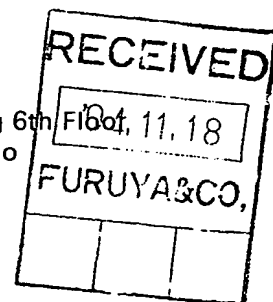
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Date of mailing (day/month/year) 10 November 2004 (10.11.2004)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference 000004055PCT	
International application No. PCT/JP2004/015313	
International publication date (day/month/year) Not yet published	
Applicant KAO CORPORATION et al	International filing date (day/month/year) 08 October 2004 (08.10.2004) Priority date (day/month/year) 08 October 2003 (08.10.2003)

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<u>Priority date</u>	<u>Priority application No.</u>	<u>Country or regional Office or PCT receiving Office</u>	<u>Date of receipt of priority document</u>
08 Octo 2003 (08.10.2003)	2003-349740	JP	28 Octo 2004 (28.10.2004)

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